

REMARKS/ARGUMENTS

Claims 19-36 were previously pending in the application. Claims 34-36 are canceled; claims 19-21, 27-28, and 32-33 are amended; and new claims 37-61 are added herein. Assuming the entry of this amendment, claims 19-33 and 37-61 are now pending in the application. The Applicant hereby requests further examination and reconsideration of the application in view of the foregoing amendments and these remarks.

In paragraph 1 of the office action, the Examiner requested clarification on the spelling of the inventor's last name. In response, the Applicant submits that the correct spelling of the inventor's last name is Kenington.

In paragraph 2, the Examiner required an abstract on a separate sheet. Accompanying this amendment is an abstract on a separate sheet.

In paragraph 3, the Examiner stated that section heading should be included. In response, the Applicant has amended the specification to add section headings.

In paragraph 4, the Examiner objected to claims 19-36 because of informalities. In response:

- o Regarding 4(a) and 4(e), claim 19 has been amended to clarify that the "input circuitry" provides "the input signal along first, second and third paths." Splitter 405 and directional coupler 415 of Fig. 2 form an example of the input circuitry of claim 19. These elements provide the RF input signal of Fig. 2 to attenuator 420, mixer 410, and mixer 425 along three paths that may be said to be examples of the first, second and third paths of claim 19. Claims 32 and 33 have been similarly amended.
- o Regarding 4(b), claims 19, 32, and 33 have been amended as suggested by the Examiner.
- o Regarding 4(c), claim 27 has been amended to overcome the objection.
- o Regarding 4(d), claim 28 has been amended to overcome the objection.
- o Regarding 4(f), claims 34-36 have been canceled, but the features of those claims have been added to claims 19, 32, and 33, respectively, with the changes suggested by the Examiner.

In view of the foregoing, the Applicant submits that the objections to claims 19-36 have been overcome.

In paragraph 6, the Examiner rejected claims 19, 22-24, and 29-33 under 35 U.S.C. 102(b) as being anticipated by Kobayashi. In paragraph 13, the Examiner objected to claims 20-21, 25-28, and 34-36 as being dependent upon a rejected base claim, but indicated that those claims would be allowable if rewritten in independent form. For the following reasons, the Applicant submits that all of the now-pending claims are allowable over the cited references.

Claim 19 has been amended to include the features of previously presented claim 34. As such, currently amended claim 19 is equivalent to previously presented claim 34 rewritten in independent form. Since the Examiner stated that previously presented claim 34 would be allowable if rewritten in independent form, the Applicant submits that currently amended claim 19 is allowable. Since claims 20-31 depend variously from claim 19, it is further submitted that those claims are also allowable.

Claim 32 has been amended to include the features of previously presented claim 35. As such, currently amended claim 32 is equivalent to previously presented claim 35 rewritten in independent form. Since the Examiner stated that previously presented claim 35 would be allowable if rewritten in independent form, the Applicant submits that currently amended claim 32 is allowable.

Claim 33 has been amended to include the features of previously presented claim 36. As such, currently amended claim 33 is equivalent to previously presented claim 36 rewritten in independent form. Since the Examiner stated that previously presented claim 36 would be allowable if rewritten in independent form, the Applicant submits that currently amended claim 33 is allowable.

New claim 37 is equivalent to previously presented claim 25 rewritten in independent form. Since the Examiner stated that previously presented claim 25 would be allowable if rewritten in independent form, the Applicant submits that new claim 37 is allowable. Support for new claim 38 is found in previously pending claim 26. Since claim 38 depends variously from claim 37, it is further submitted that claim 38 is also allowable.

New claim 39 is equivalent to previously presented claim 27 rewritten in independent form. Since the Examiner stated that previously presented claim 27 would be allowable if rewritten in independent form, the Applicant submits that new claim 39 is allowable. Support for new claim 40 is found in previously pending claim 28. Since claim 40 depends variously from claim 39, it is further submitted that claim 40 is also allowable.

Support for new claims 41-61 is as follows:

<u>New Claim</u>	<u>Support</u>
41	Fig. 1
42	Fig. 1
43	Fig. 1
44	Fig. 1
45	Fig. 1
46	Fig. 5
47	Fig. 1
48	Fig. 2
49	Fig. 2
50	Fig. 2
51	Page 11, lines 18-19
52	Fig. 2
53	Figs. 3-4
54	Figs. 5-6
55	Fig. 5
56	Fig. 5
57	Page 16, lines 7-9
58	Fig. 7
59	Fig. 6
60	Fig. 6
61	Page 16, line 19, to page 17, line 2

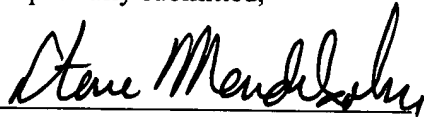
New claim 41 is directed to a predistorter for linearizing an amplifier. The predistorter comprises a first set of circuitry adapted to generate a first high-order signal based on an input signal, wherein the first high-order signal is used to generate a predistorted input signal for application to the

amplifier, and the order of the first high-order signal is greater than or equal to five. Since the prior art of record does not teach or even suggest such a combination of features, the Applicant submits that claim 41 and therefore dependent claims 42-61 are all allowable.

In view of the above amendments and remarks, the Applicant believes that the now-pending claims are in condition for allowance. Therefore, the Applicant believes that the entire application is now in condition for allowance, and early and favorable action is respectfully solicited.

Respectfully submitted,

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